	Application No.	Applicant(s)
Notice of Allowability		
	10/629,585 Examiner	KASAI, TOSHIYUKI Art Unit
	Ladillile	Artonic
	Tom V. Sheng	2629
The MAILING DATE of this communication appearance All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this or other appropriate communica GHTS. This application is subje	application. If not included ation will be mailed in due course. THIS
1. X This communication is responsive to <u>amendment filed on 8/7/2006</u> .		
2. $\boxtimes$ The allowed claim(s) is/are $\underline{1,3-10,12-18,21-24,26}$ and $\underline{27}$ .		
<ul> <li>3.</li></ul>		·.
2. Certified copies of the priority documents have been received in Application No		
3. Copies of the certified copies of the priority documents have been received in this national stage application from the		
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give	itted. Note the attached EXAMINes reason(s) why the oath or dec	NER'S AMENDMENT or NOTICE OF claration is deficient.
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached		
1)  hereto or 2)  to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).		
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
Attachment(s)	E  Notice of Inform	ol Potent Application (PTO 450)
<ol> <li>Notice of References Cited (PTO-892)</li> <li>Notice of Draftperson's Patent Drawing Review (PTO-948)</li> </ol>	5. ☐ Notice of Inform 6. ☐ Interview Summ	al Patent Application (PTO-152)
	Paper No./Mail	Date
<ol> <li>Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date</li> </ol>	8), 7. ⊠ Examiner's Ame	endment/Comment
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. 🛛 Examiner's Stat	ement of Reasons for Allowance
<b>V</b> · · · · · · · · · · · · · · · · · · ·	9.  Other	

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## **EXAMINER'S AMENDMENT**

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1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Attorney/Agent Gang Luo on 8/22/2006.

In The Claims-

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Claim 1, line 16, replace "elements" with --element--; and line 21, replace "electro-optical" with --electronic--.
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Claim 3, line 23, replace "electro-optical" with --electronic--.

Claim 4, line 23, replace "electro-optical" with --electronic--.

Claim 5, line 1, after "according", insert -- to--.

Claim 7, line 7, after "supplying", insert --, via a first device,--; line 8, after "supplying", insert --, via a second device,--; line 12, replace "," with --.--; and delete lines 13-14.

Claim 15, line 7, after "supplying", insert --, via a first device,--; line 8, after "is supplied to", replace "a" with --the--; line 9, after "supplying", insert --, via a second device,--; line 12, replace "," with --.--; and delete lines 13-14.

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Please cancel claims 19, 20 and 25.

## Allowable Subject Matter

- 2. Claims 1, 3-10, 12-18, 21-24, 26 and 27 are allowed.
- 3. The following is an examiner's statement of reasons for allowance:

The invention is directed to an electro-optical display device capable of reducing power consumption. The invention includes a first driving voltage and a second driving voltage, are supplied to the source of a driving transistor. During a data writing period, the first driving voltage to be supplied to the driving transistor and is higher than the second driving voltage. During a light-emitting period, the second driving voltage supplied to the driving transistor, resulting in lower power consumption.

Independent claims 1, 3 and 4 identify the uniquely distinct features "said first driving voltage being higher than said second driving voltage, said first device supplying said first driving voltage at least in a period in which the electrical signal is supplied to the capacitor element by said first transistor, and said second device supplying said second driving voltage at least in a period in which the amount of electrical current corresponding to the conductive state is supplied to said electronic element via said second transistor."

Independent claim 7 identifies the uniquely distinct features "supplying, via a first device, a first driving voltage to said electronic circuit in a period in which the electrical signal is supplied to the capacitor element via said first transistor; and supplying, via a second device, a second driving voltage, which is lower than said first driving voltage, in

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a period in which the amount of electrical current corresponding to the conductive state is supplied to said electronic element via said second transistor, the first driving voltage and the second driving voltage being supplied to one electrode of the capacitor element."

Independent claims 10, 12 and 13 identify the uniquely distinct features "said first driving voltage being higher than said second driving voltage, said first device supplying said first driving voltage at least in a period in which the electrical signal is supplied to the capacitor element by said first transistor, and said second device supplying said second driving voltage at least in a period in which the amount of electrical current corresponding to the conductive state is supplied to said electro-optical element via said second transistor."

Independent claim 15 identifies the uniquely distinct features "supplying, via a first device, a first driving voltage to said electro-optical device in a period in which the electrical signal is supplied to the capacitor element via said first transistor; and supplying, via a second device, a second driving voltage, which is lower than said first driving voltage, in a period in which the amount of electrical current corresponding to the conductive state is supplied to said electro-optical element via said second transistor, the first driving voltage and the second driving voltage being supplied to one electrode of the capacitor element."

Akimoto et al. (US 2002/0196213 A1, hereinafter Akimoto) teaches a lightemitting type pixel comprising a switching transistor, a storage capacitor, a reset transistor, an inverter circuit of two inverting transistors, and an OLED. During the writing period of each horizontal scanning period, the reset transistor is turned on the inverter circuit is reset to Vrst. During the driving period of the horizontal scanning period, the reset transistor is turned off and input voltage at inputs of the inverter circuit now determines the state of the OLED. The operations involving the two periods in each horizontal scanning period do not correspond to claimed operations and the use of two different driving voltages recited above.

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Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tom V. Sheng whose telephone number is (571) 272-7684. The examiner can normally be reached on 9:00am - 6:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Amr Awad can be reached on (571) 272-7764. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Tom Sheng August 23, 2006

AMR A. AWAD
PRIMARY EXAMINER

Ami Alma AWM